

Healthier Lives Post Heart Surgery



Dominick Angiolillo

Professor of Medicine with Tenure Status, Department of Medicine, Division of Cardiology, Director, Cardiovascular Research Center, Thrombosis Research Center

CURRENT RESEARCH

Predicting how patients respond to medication post-surgery

After heart surgery, patients are given a number of medications to help the healing process. The risks of secondary heart attacks are high. Dr. Dominick Angiolillo at the University of Florida is a researcher and clinical doctor investigating "personalized" antiplatelet therapy with the goal of improving healthcare outcomes in patients with heart disease. This research includes examining several blood-thinning medications including a drug that may help reduce the risk of heart attacks for cardiac patients awaiting surgery. As Dr. Angiolillo puts it, "Conducting research allows me to be ahead of the curve and take better care of my patients."

One of his areas of major accomplishments has been towards defining the concept of variability in individual response to antiplatelet therapies commonly used in clinical practice. In particular, he has pioneered this field by not only describing this laboratory phenomenon, but most importantly investigating the clinical consequences of having different levels of antiplatelet effects in a given patient. Moreover, he has largely contributed to the understanding of the mechanisms of why antiplatelet agents may have altered effects in different patients. He was amongst the first to define how different genetic polymorphisms may affect profiles on individual response to antiplatelet therapy. Further, his discoveries have led to the identification of specific drug-drug interactions with commonly used antiplatelet therapies, which have in turn been associated with patient outcomes. Notably, these investigations have been considered by the United States Food and Drug Administration and by the European Medical Agency for updates on safety and indication labeling on various...

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AFFILIATION

 University of Florida

EDUCATION

- Ph.D. in Molecular and Cellular Cardiology 2006, Catholic University of the Sacred Heart Medical School, Rome, Italy
- Post-doctoral Residency in Interventional Cardiology 2004, Complutense University, Madrid, Spain
- Post-doctoral Residency in Internal Medicine & Cardiology 2004, Catholic University of the Sacred Heart Medical School, Rome, Italy
- M.D. in Medical School 1997, Catholic University of the Sacred Heart Medical School, Rome, Italy

AWARDS

- Thomson Reuters' 2014 list of The World's Most Influential Scientific Minds, 2014
- Exemplary Teacher Award at the University of Florida College of Medicine, 2014
- Exemplary Teacher Award at the University of Florida College of Medicine, 2009
- Marie Curie Individual Fellowship of the European Community for post-graduate Cardiovascular Research, 2002
- Winner of the Training Fellowship in Interventional Cardiology of the European Society of Cardiology, 2002

RESEARCH AREAS

Life Science, Cardiovascular, Cardiovascular

FUNDING REQUEST

Dr. Angiolillo is in various stages of research. Clinical and translational research are costly because of the nature of this type of research requiring skilled personnel with different backgrounds with research that needs to be conducted in human subjects. This represents the avenue to advance health care in patients where new treatments need to be applied. Your contributions will help advance Dr. Angiolillo's research and help patient populations who can most benefit from it.